Claims

1. A composite construction for use as a label or a tape comprising: a first substrate, said first substrate having a face side and an underside opposite said face side; an adhesive layer; and a barrier layer adhered to the underside of said first substrate and positioned between said first substrate and said adhesive layer, said barrier layer comprising a radiation cured acrylated epoxy derived from at least one acrylated epoxy oligomer and at least one reactive diluent selected from N-vinyl-2-pyrrolidone and N-vinylcaprolactam, wherein said barrier layer being substantially impervious to migratory components in said first substrate.

2. The construction of claim 1 wherein a release liner is adhered to said adhesive layer.

3. The construction of claim 2 wherein said release liner is comprised of a backing liner and a release coating adhered to one side of said backing liner, said release coating being positioned between said adhesive layer and said backing liner.

4. The construction of claim 1 wherein said composite construction is adhered to a second substrate.

5. The construction of claim 1 wherein said first substrate is comprised of a polymer film.

6. The construction of claim 1 wherein said first substrate is comprised of a polyvinyl chloride.

7. The construction of claim 1 wherein the radiation cured acrylated epoxy is derived from at least one acrylated epoxy oligomer, at least one reactive diluent selected from N-vinyl-2-pyrrolidone and N-vinylcaprolactam, and at least one photoinitiator.

8. The construction of claim 7 wherein said barrier layer is cured using ultraviolet light.

9. The construction of claim 1 wherein said barrier layer further comprises a wax, a surfactant, or a combination thereof.

10. The construction of claim 1 wherein said adhesive layer is comprised of a pressure-sensitive adhesive.

11. The construction of claim 1 wherein said adhesive layer is comprised of a acrylate or methacrylate pressure-sensitive adhesive.

12. The construction of claim 1 wherein the acrylated epoxy is derived from about 65-90% by weight of at least one acrylated epoxy oligomer, about 10-30% by weight of at least one reactive diluent selected from N-vinyl-2-pyrrolidone and N-vinylcaprolactam, and 1-10% by weight of at least one photoinitiator

13. A composite comprising: a polyvinyl chloride substrate, having a face side and an underside opposite said face side; an adhesive layer; and a barrier layer adhered to the underside of said polyvinyl chloride substrate and positioned between said polyvinyl chloride substrate and said adhesive layer, said barrier layer comprising a radiation cured acrylated epoxy derived from at least one acrylated epoxy oligomer and at least one reactive diluent selected from N-vinyl-2-pyrrolidone and N-vinylcaprolactam, said barrier layer being substantially impervious to migratory components in said polyvinyl chloride substrate; and a release liner adhered to said adhesive layer.

14. The composite of claim 13 wherein the radiation cured acrylated epoxy is derived from at least one acrylated epoxy oligomer, at least one reactive diluent selected from N-vinyl-2-pyrrolidone and N-vinylcaprolactam, and at least one photoinitiator.